IN THE CLAIMS

1. (Currently amended) A method comprising:

identifying data for transmission;

determining a number of time-slots available for the transmission;

identifying a plurality of data packet[[s]] types that fit into the available time-

slots; and

selecting, from the plurality of data packet types, a data packet type to transmit a

portion of the data in accordance with characteristics of the transmission.

2. (Currently amended) The method of claim 1, wherein selecting, from the plurality of

data packet[[s]] types, a data packet type to transmit a portion of the data comprises

identifying a data packet type from the plurality of data packet types which can be used to

transmit a largest portion of the data within the time-slots available.

3. (Currently amended) The method of claim 1, wherein the data includes at least a

minimum amount of data required by the data packet type.

4. (Currently amended) The method of claim 1, further comprising identifying a data

packet type from the plurality of data packet[[s]] types to transmit all the data.

5. (Currently amended) A method comprising:

identifying data for transmission;

determining a number of time-slots available for the transmission; and

identifying a data packet type from a plurality of data packet[[s]] types which is

least prone to a transmission error.

6. (Previously Presented) A method comprising:

    identifying data for transmission;

    determining a number of time-slots available for the transmission; and

    identifying a data packet which can be transmitted in a transmitter logic low

power mode.

7. (Currently amended) A computer-readable medium having stored thereon a set of

instructions, which when executed by a processor, cause the processor to perform a

method comprising:

    identifying data for transmission;

    determining a number of time-slots available for the transmission;

    identifying a plurality of data packet[[s]] types that fit into the available time-

slots; and

    selecting, from the plurality of data packet[[s]] types, a data packet type to

transmit a portion of the data in accordance with characteristics of the transmission.

8. (Currently amended) The medium of claim 7, wherein selecting, from the plurality of

data packet[[s]] types, a data packet type to transmit a portion of the data comprises

identifying a data packet type from the plurality of data packet[[s]] types which can be

used to transmit a largest portion of the data within the time-slots available.

9. (Currently amended) The medium of claim 7, wherein the data includes at least a

minimum amount of data required by the data packet type.

10. (Currently amended) The medium of claim 7, further comprising identifying a data

packet type from the plurality of data packet[[s]] types to transmit all the data.

11. (Currently amended) A computer-readable medium having stored thereon a set of instructions, which when executed by a processor, cause the processor to perform a method comprising:

      identifying data for transmission;

      determining a number of time-slots available for the transmission; and

      identifying a data packet type from [[the]] a plurality of data packet[[s]] types which is least prone to a transmission error.

12. (Previously Presented) A computer-readable medium having stored thereon a set of instructions, which when executed by a processor, cause the processor to perform a method comprising:

      identifying data for transmission;

      determining a number of time-slots available for the transmission; and

      identifying a data packet which can be transmitted in a transmitter logic low power mode.

13. (Currently amended) A computing system comprising:

      a first programmable module to identify data for transmission;

      a second programmable module to determine a number of time-slots available for the transmission; and

      a third programmable module to identify a plurality of data packet[[s]] types that fit into the available time-slots, and to select, from the plurality of data packet[[s]] types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission.

14. (Original) The computing system of claim 13, wherein the computing system includes a computer network router.

15. (Currently amended) A computing system comprising:

       a first programmable module to identify data for transmission;

       a second programmable module to determine a number of time-slots available for the transmission; and

       a third programmable module to identify a data packet type least prone to a transmission error.

16. (Previously Presented) A computing system comprising:

       a first programmable module to identify data for transmission;

       a second programmable module to determine a number of time-slots available for the transmission; and

       a third programmable module to identify a data packet which can be transmitted in a transmitter logic low power mode.